TIME MODULATION[SM]

The Revolution in Wireless Communications
Ultra-Wideband Radio And Radar Technology

presented by

Ralph G. Petroff, CEO

Time Domain

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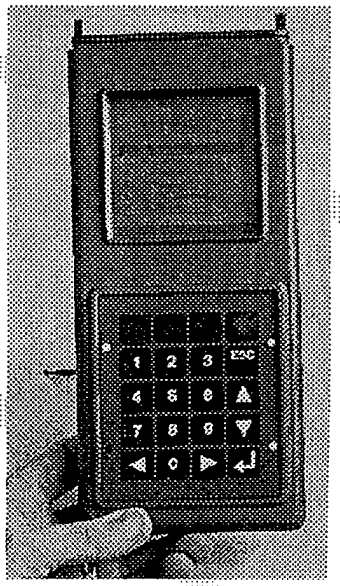
We are

Time Modulated Ultra-Wideband Technology

The Radio Is

STEALTHLINK™



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For SPECIAL OPERATIONS FORCES

StealthLink™ Is

- Extremely LPI/LPD
- Ultrawide RF Bandwidth
- High Data Rate
- Very Low Power Spectral Density
- Large Number of Channels
- Multi-Path Immunity
- Sub-cm Ranging

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To Be Absolutely Clear -

TIME MODULATION[SM] IS NOT

- Narrowband
- Spread Spectrum (Frequency Hopping or Direct Spectrum)
- Conventional Ultra-Wideband

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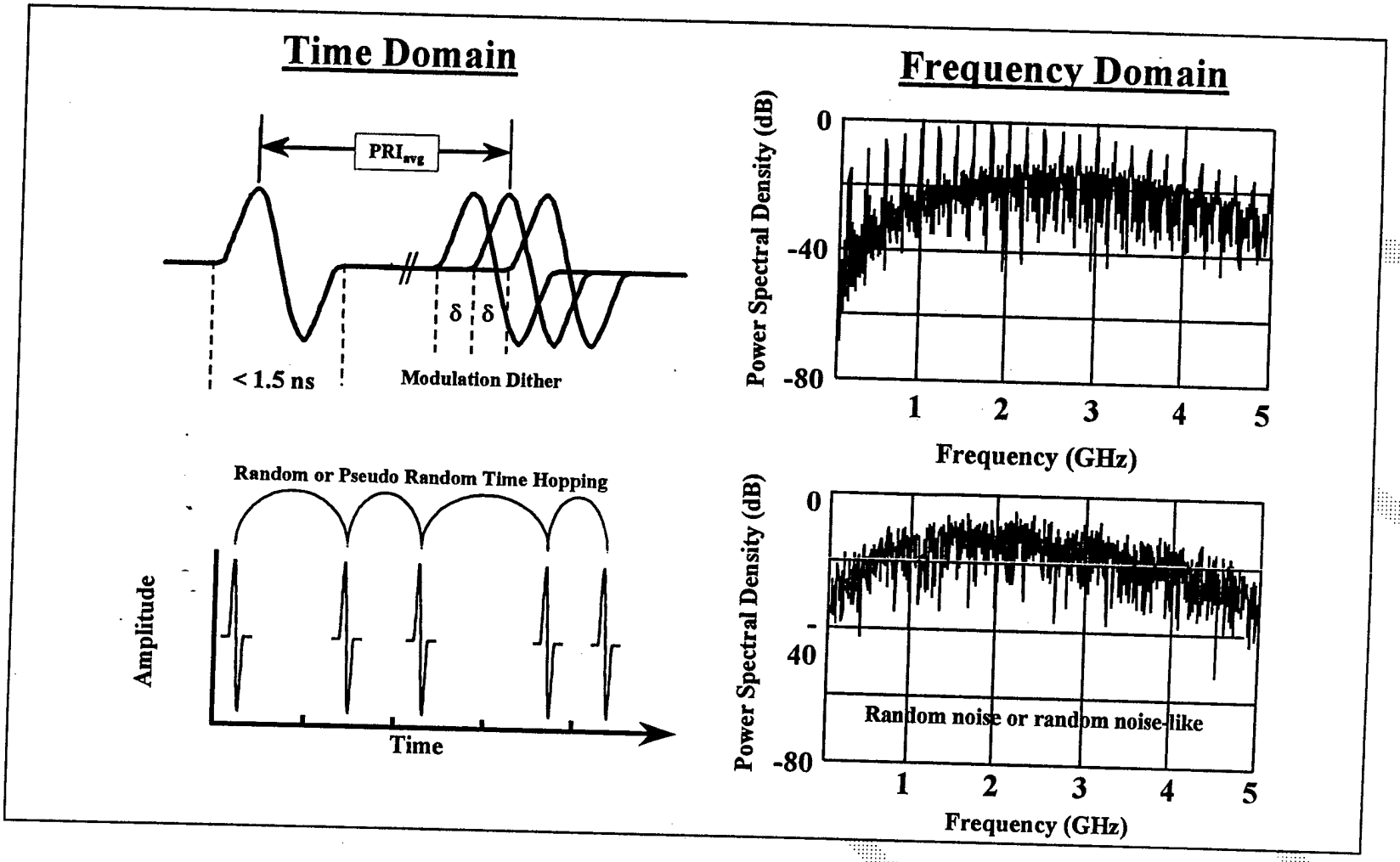
Time Modulation Fundamentals



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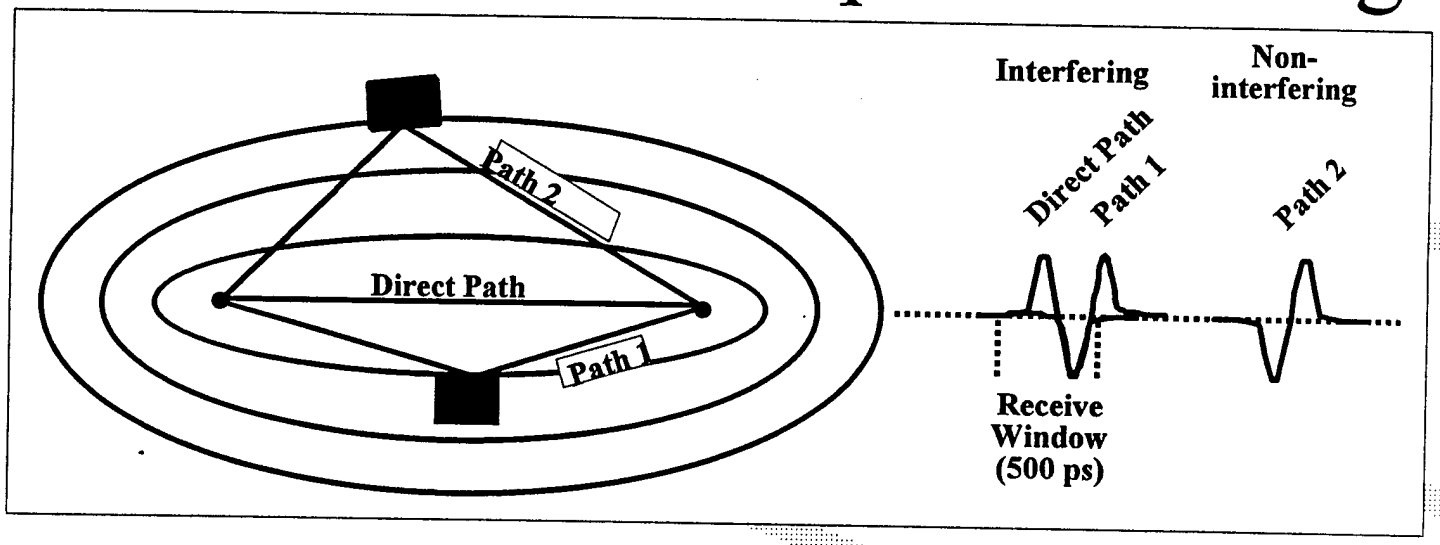
StealthLink™ 's Multipath Advantage



- RAYLEIGH FADING : A Continuous Wave Phenomenon
  - Conventional Radios Overcome Fading with Power
  - High Power Transmitter are Detectable and Consumed Batteries
- StealthLink Does Not Use Continuous Waves
  - No Rayleigh fading
  - No high power transmission required to overcome Rayleigh fading

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Time Modulation Technology Development

- First Patented in 1986
- Applications in Aerial & Ground Penetrating Radar
- Applications in Photonics & Pulsed Power
- Prototype Short Range Gated Proximity Sensor
- Prototype StealthBug
- Prototype Security Field
- Prototype Sparse Array Antennas for Radio & Radar
- Application Specific Integrated Circuits (ASICs) - 3 in Process

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StealthLink™ : Ultra-Wideband Technology Electronic Device

- U.S. Marine Corps Amphibious Warfare Technology Directorate
- U.S. Army Communications & Electronics Command
- Technology Demonstrator for Time Modulation Radio Technology
- Deliverable : 16 StealthLink™ Radios
- Status : In Delivery

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Value of Time Modulation™

Operational Capability	Superiority Through a Time Modulation Solution
Information Superiority	• Inherently LPI/D • Secure Ad Hoc Networking • Higher Information Throughputs • Greater Simultaneous Numbers of Users
Dominant Maneuver for MOUT	• Robust Urban area and In-Building Communications • LPI /LPD Communications • Under Ground Communications • Geo-Location (Independent of GPS)
Precision Engagement	• Real time situational awareness • Combat ID • Geo-Location (Independent of GPS)
Full Dimensional Protection	• Network(s) of Self-Organizing Security Sensors Through a Software Implemented Enhancement Telemedicine Functions
Logistics Management	• LPD RF Tagging of Material

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Time Domain[SM] Offers the Solution for Tomorrow's Military Communications :

RIGHT NOW

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